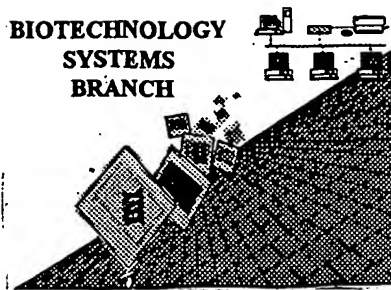


BEST AVAILABLE COPY

5040

#20

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/019,409
Source: P4/10
Date Processed by STIC: 1/22/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202



PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,409

DATE: 01/22/2002
TIME: 10:40:21

pp 1-3

Input Set : A:\Es.txt
Output Set: N:\CRF3\01182002\J019409.raw

Does Not Comply
Corrected Diskette Needed

2 <110> APPLICANT: Japan as Represented by Secretary of Agency of Industrial Science and
3 Technology
W--> 4 <120> TITLE OF INVENTION: Sulphur Free Enzyme
W--> 5 <130> FILE REFERENCE: PH-911-PCT
W--> 6 <140> CURRENT APPLICATION NUMBER:
C--> 7 <141> CURRENT FILING DATE: 2001-12-28
8 <150> PRIOR APPLICATION NUMBER: JP99/183664
W--> 9 <151> PRIOR FILING DATE: (29-JUN-1999) 1999-06-29 ← use this date format
W--> 10 <160> NUMBER OF SEQ ID: 10
11 <170> SOFTWARE: PatentIn Ver. 2.0

*Suggestion: Consult
Sequence Rules
for valid
format*

ERRORED SEQUENCES

40 <210> SEQ ID NO: 2
41 <211> LENGTH: 566
42 <212> TYPE: DNA
43 <213> ORGANISM: E. coli → *<220> ← insert this mandatory numeric
identifier
wherever*
44 <221> NAME/KEY: CDS
45 <222> LOCATION: (81)...(557)
W--> 46 <400> SEQUENCE: 2
E--> 47 ggatccttga caattagtta actatttggtt ataatgtatt catgagctta actaactaat
E--> 48 ccggaaaagg aggaacttcc atgatcagtc tgattgcggc gctagcggta gatcgcgtta
E--> 49 tcggcatgga aaacgccatg ccatggaacc tgcctgccga tctcgccctgg tttaaacgca
E--> 50 acaccttaaa taaacccgtg attatggggc gccatacctg ggaatcaatc ggtaggcctt
E--> 51 tgcccggcgc caaaaatatt atcctcagca gtcaaccggg gaccgatgat cgggttacct
E--> 52 ggggttaaate ggtcgacgaa gccatcgccg ccgcagggtga cgtaccagaa atcatggtga
E--> 53 ttggcggcgg acgcgtttat gaacagttct tgccaaaagc gcaaaagctt tatctgacgc
E--> 54 atatcgatgc agaagtggaa ggcgacaccc attttccgga ttacgagccg gatgactggg
E--> 55 aatcggtatt cagcgaattc cagcatgctg atgcgcagaa ctgcgatagc tattcggttcg
E--> 56 aaatcctcga gcgtcggttaa ggatcc
90 <210> SEQ ID NO: 4
91 <211> LENGTH: 558
92 <212> TYPE: DNA
93 <213> ORGANISM: B. subtilis → *<220> ← insert*
94 <221> NAME/KEY: CDS
95 <222> LOCATION: (1)...(555)
W--> 96 <400> SEQUENCE: 4
E--> 97 gctagcacag actactggca aaattggact gatgggggcg gtatagtaaa cgctgtcaat
E--> 98 ggggtctggcg ggaattacag tgtaattgg tctaataccg gaaattttgt tgttggttaa
E--> 99 ggttggaacta caggttcgcc atttaggacg ataaactata atgccggagt ttgggcgcgc
E--> 100 aatggcaatg gatatttaac tttatatggt tggacgagat cacctctcat agaattattat
E--> 101 gtagtggatt catgggggtac ttatagacct actggaacgt ataaaggtac tgtaaaaaagt

60
120
← 2217, 2227, or
2237 is
shown
insert
cumulative
nucleotide total
at right margin
of each line

*same error as
above*

RAW SEQUENCE LISTING

DATE: 01/22/2002

PATENT APPLICATION: US/10/019,409

TIME: 10:40:21

Input Set : A:\Es.txt

Output Set: N:\CRF3\01182002\J019409.raw

E--> 102 gatgggggta catatgacat atatacaact acacgttata acgcaccttc cattgatggc
 E--> 103 gatcgcaacta cttttacgca gtactggagt gtccgccagt cgaagagacc aaccggaagc
 E--> 104 aacgctacaa tcactttcag caatcatgtg aacgcatgga agagccatgg aatgaatctg
 E--> 105 ggcagtaatt gggcttacca agtcatggcg acagaaggat atcaaagtag tggctcgtcg
 E--> 106 aatgttaccg tatggtaa

same

136 <210> SEQ ID NO: 6
 137 <211> LENGTH: 569
 138 <212> TYPE: DNA
 139 <213> ORGANISM: E. coli

>L2207

140 <221> NAME/KEY: CDS
 141 <222> LOCATION: (81)...(560)

W--> 142 <400> SEQUENCE: 6

E--> 143 ggatccttga caattagtta actatttggtt ataatgtatt catgagctta actaactaat
 E--> 144 ccggaanaagg aggaacttcc atggcaatca gtctgattgc ggcgctagcg gtagatcgcg
 E--> 145 ttatcggaac cgaaaacgcc ctcccatgga acctgcctgc cgatctcgcc tgggttaaac
 E--> 146 gcaacacctt aaataaaccc gtgatttacg ggcgccatac ctgggaatca atcggttaggc
 E--> 147 ctttgcccg ccgcaaaaat attatcctca gcagtcaacc cgggaccgat gatcggttta
 E--> 148 cctgggttaa atcggtcgac gaagccatcg cggccgcagg tgacgtacca gaaatcttcg
 E--> 149 tgattggcgg cggacgcgtt tatgaacagt tcttgccaaa agcgcaaaag ctttatctga
 E--> 150 cgcataatga tgcagaagtg gaaggcgaca cccattttcc ggattacgag ccggatgact
 E--> 151 gggaaatcggt attcagcgaa ttccacgatg ctgatgcgca gaactcgcat agctattcgt
 E--> 152 tcgaaatcct cgagcgtcgt taaggatcc

*same
err**as above*

208 <210> SEQ ID NO: 8
 209 <211> LENGTH: 1153
 210 <212> TYPE: DNA

W--> 211 <213> ORGANISM: ← MANDATORY response needed (this error also exists in Seqs 7-10)

W--> 212 <400> SEQUENCE: 8

E--> 213 ggatccttga caattagtta actatttggtt ataatgtatt catgagctta actaactaat
 E--> 214 ccggaanaagg aggaacttcc atggcaatca gtctgattgc ggcgctagcg gtagatcgcg
 E--> 215 ttatcggaac cgaaaacgcc ctcccatgga acctgcctgc cgatctcgcc tgggttaaac
 E--> 216 gcaacacctt aaataaaccc gtgatttacg ggcgccatac ctgggaatca atcggttaggc
 E--> 217 ctttgcccg ccgcaaaaat attatcctca gcagtcaacc cgggaccgat gatcggttta
 E--> 218 cctgggttaa atcggtcgac gaagccatcg cggccgcagg tgacgtacca gaaatcttcg
 E--> 219 tgattggcgg cggacgcgtt tatgaacagt tcttgccaaa agcgcaaaag ctttatctga
 E--> 220 cgcataatga tgcagaagtg gaaggcgaca cccattttcc ggattacgag ccggatgact
 E--> 221 gggaaatcggt attcagcgaa ttccacgatg ctgatgcgca gaactcgcat agctattcgt
 E--> 222 tcgaaatcct cgagcgtcgt ggtggcggtg gctcgggtgg tggcgcgct agcacagact
 E--> 223 actggcaaaa ttggactgat gggggcggtg tagtaaacgc tgtcaatggg tctggcgga
 E--> 224 attacagtgt taattggtct aataccggaa attttggtgt tggtaaagggt tggactacag
 E--> 225 gttcgccatt taggacgata aactataatg ccggagtttg ggcgcgaat ggcaatggat
 E--> 226 atttaacttt atatggttg acgagatcac ctctcataga atattatgta gtggattcat
 E--> 227 ggggtactta tagacctact ggaacgtata aaggtactgt aaaaagtgat gggggtacat
 E--> 228 atgacatata tacaactaca cgttataacg cactttccat tgatggcgat cgcactactt
 E--> 229 ttacgcagta ctggagtgtt cgccagtcga agagaccaac cggaagcaac gctacaatca
 E--> 230 ctttcagcaa tcatgtgaac gcatggaaga gccatggaat gaatctgggc agtaattggg
 E--> 231 cttaccaagt catggcgaca gaaggatatc aaagtagtgg ctcgtcgaat gttaccgtat
 E--> 232 ggtaaggatc ccc

*same
error
(insert
cumulative
nucleotide
totals)*

288 <210> SEQ ID NO: 10
 289 <211> LENGTH: 1153

P.3

RAW SEQUENCE LISTING

DATE: 01/22/2002

PATENT APPLICATION: US/10/019,409

TIME: 10:40:21

Input Set : A:\Es.txt

Output Set: N:\CRF3\01182002\J019409.raw

290 <212> TYPE: DNA
W--> 291 <213> ORGANISM: *← insert mandatory response*
W--> 292 <400> SEQUENCE: 10
E--> 293 ggatccttga caattagtta actatttggtt ataatgtatt catgagctta actaactaat
E--> 294 ccggaagagg aggaacttcc atggcaatca gtctgattgc ggcgctagcg gtagatcgcg
E--> 295 ttatcgccaa cgaaaacgcc ctcccatgga acctgcctgc cgatctcgcc tggtttaaac
E--> 296 gcaacacctt aaataaaccc gtgatttacg ggcgccatac ctgggaatca atcggtaggg
E--> 297 ctttgccegg ccgcaaaaat attatcctca gcagtcaacc cgggaccgat gatcggttta
E--> 298 cctgggttaa atcggtcgac gaagccatcg cggccgcagg tgacgtacca gaaatcttcg
E--> 299 tgattggcgg cggacgcgtt tatgaacagt tcttgccaaa agcgcaaaag ctttatctga
E--> 300 cgcataatga tgcagaagtg gaaggcgaca cccattttcc ggattacgag ccggatgact
E--> 301 gggaatcggg attcagcgaa ttccacgatg ctgatgcgca gaactcgcg agctattcgt
E--> 302 tcgaaatcct cgagcgtcgt ggtggcggtg gctcggttg tggcgccgct agcacagact
E--> 303 actggcaaaa ttggactgat gggggcggtg tagtaaacgc tgtcaatggg tctggcggtg
E--> 304 attacagtgt taattggtct aataccggaa attttggtgt tggtaaagggt tggactacag
E--> 305 gttcgccatt taggacgata aactataatg ccggagtttg ggcgccgaat ggcaatggat
E--> 306 atttaacttt atatggttgg acgagatcac ctctcataga atattatgta gtggattcat
E--> 307 ggggtactta tagacctact ggaacgtata aagggtactgt aaaaagtgat gggggtacat
E--> 308 atgacatata tacaactaca cgttataacg caccttccat tgatggcgat cgcactactt
E--> 309 ttacgcagta ctggagtgtt cgccagtcga agagaccaac cggaagcaac gctacaatca
E--> 310 ctttcagcaa tcatgtgaac gcatggaaga gccatggact caatctgggc agtaattggg
E--> 311 cttaccaagt catcgcgaca gaaggatatc aaagtagtgg ctcgtcgaat gttaccgtat
E--> 312 ggtaaggatc ccc

*insert
cumulative
totals
at right
margin of
each line*

VERIFICATION SUMMARY

DATE: 01/22/2002

PATENT APPLICATION: US/10/019,409

TIME: 10:40:22

Input Set : A:\Es.txt

Output Set: N:\CRF3\01182002\J019409.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier
L:5 M:283 W: Missing Blank Line separator, <130> field identifier
L:6 M:283 W: Missing Blank Line separator, <140> field identifier
L:7 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:9 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:10 M:283 W: Missing Blank Line separator, <160> field identifier
L:12 M:283 W: Missing Blank Line separator, <210> field identifier
L:16 M:283 W: Missing Blank Line separator, <400> field identifier
L:46 M:283 W: Missing Blank Line separator, <400> field identifier
L:47 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:2
M:254 Repeated in SeqNo=2
L:62 M:283 W: Missing Blank Line separator, <400> field identifier
L:96 M:283 W: Missing Blank Line separator, <400> field identifier
L:97 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:4
M:254 Repeated in SeqNo=4
L:112 M:283 W: Missing Blank Line separator, <400> field identifier
L:142 M:283 W: Missing Blank Line separator, <400> field identifier
L:143 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:6
M:254 Repeated in SeqNo=6
L:157 M:201 W: Mandatory field data missing, <213> ORGANISM
L:158 M:283 W: Missing Blank Line separator, <400> field identifier
L:211 M:201 W: Mandatory field data missing, <213> ORGANISM
L:212 M:283 W: Missing Blank Line separator, <400> field identifier
L:213 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:8
M:254 Repeated in SeqNo=8
L:237 M:201 W: Mandatory field data missing, <213> ORGANISM
L:238 M:283 W: Missing Blank Line separator, <400> field identifier
L:291 M:201 W: Mandatory field data missing, <213> ORGANISM
L:292 M:283 W: Missing Blank Line separator, <400> field identifier
L:293 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:10
M:254 Repeated in SeqNo=10